

Title (en)
Improved cumene hydroperoxide concentration process

Title (de)
Verbesserte Cumolhydroperoxidkonzentrationsverfahren

Title (fr)
Procédé amélioré de concentration d'hydropéroxyde de cumène

Publication
EP 2612849 A1 20130710 (EN)

Application
EP 12150256 A 20120105

Priority
EP 12150256 A 20120105

Abstract (en)
A process for the concentration of cumene hydroperoxide comprising: (I) transferring the reaction mixture from the oxidation of cumene to cumene hydroperoxide to the first of at least two concentration columns arranged in series; (II) distilling the reaction mixture in said concentration columns to increase the percentage of cumene hydroperoxide within the reaction mixture and removing cumene from the reaction mixture in each concentration column via an overhead stream; wherein at least the first of said concentration columns is provided with a fresh cumene feed.

IPC 8 full level
C07C 407/00 (2006.01); **C07C 409/10** (2006.01)

CPC (source: EP)
C07C 407/00 (2013.01); **C07C 407/003** (2013.01)

Citation (applicant)
• WO 2010069586 A1 20100624 - BOREALIS AG [AT], et al
• WO 2010078934 A1 20100715 - BOREALIS AG [AT], et al
• US 4654124 A 19870331 - ELIAS CAROLE L [US], et al
• WANG ET AL.: "Thermal runaway Hazards of Cumene Hydroperoxide with contaminants", IND. ENG. CHEM. RES.

Citation (search report)
• [X1] GB 842586 A 19600727 - DISTILLERS CO YEAST LTD
• [X1] WEBER ET AL: "Phenols", 1 January 2010 (2010-01-01), pages 9 - 23, XP055011766, Retrieved from the Internet <URL:http://www.springerlink.com/content/p106842242q32l73/> [retrieved on 20111110], DOI: 10.1007/978-3-642-04714-5_2

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
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